

FIG. 1

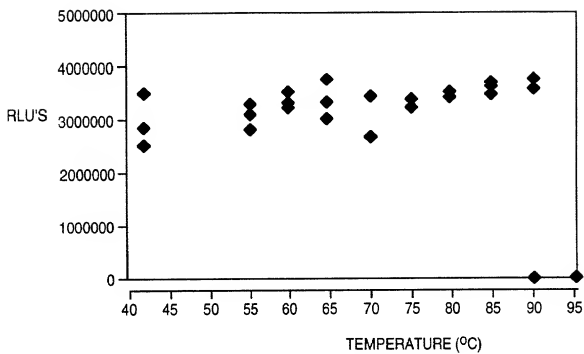
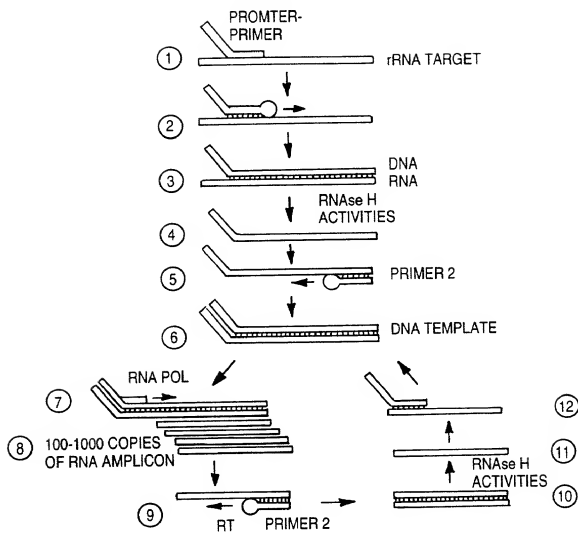


FIG. 2



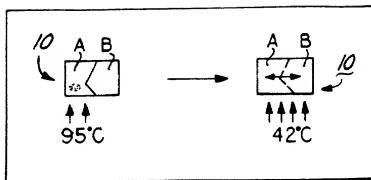


FIG. 3A

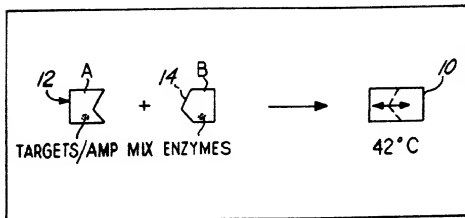


FIG. 3B

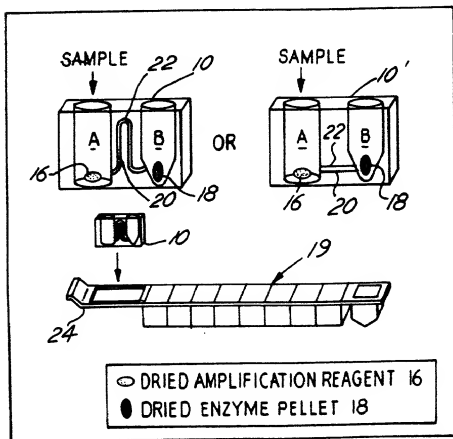
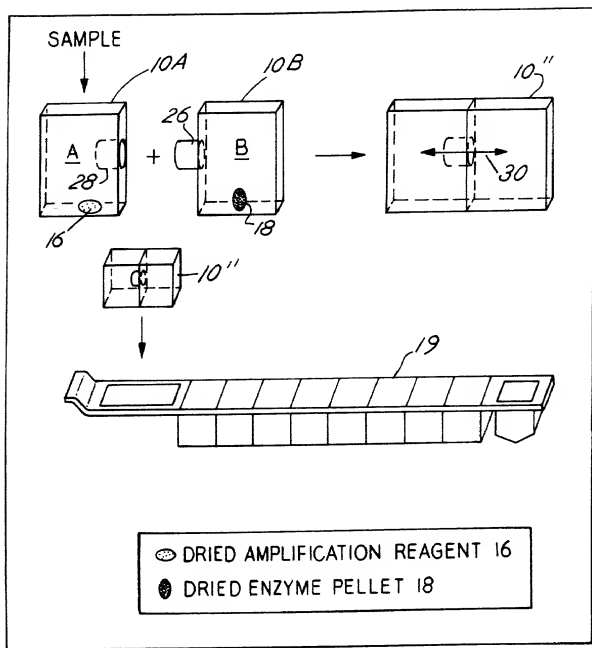


FIG. 3C

FIG. 4



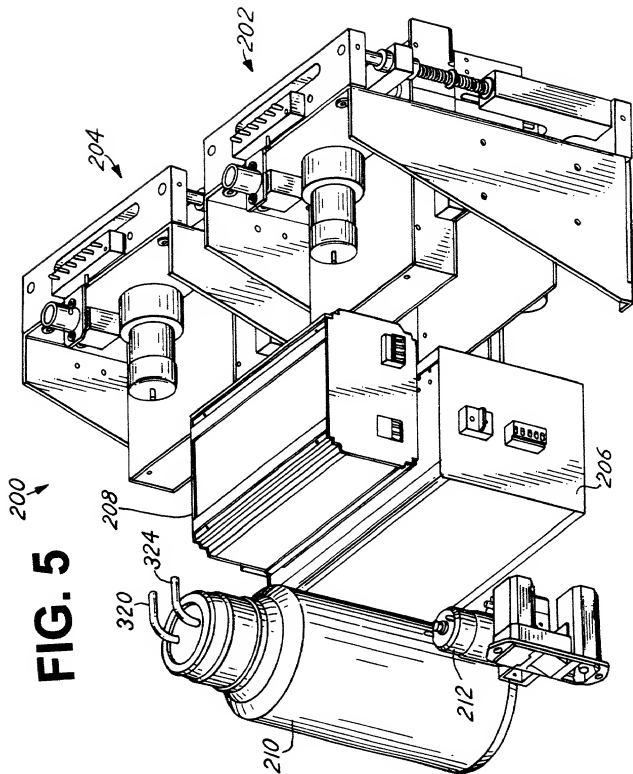


FIG. 6

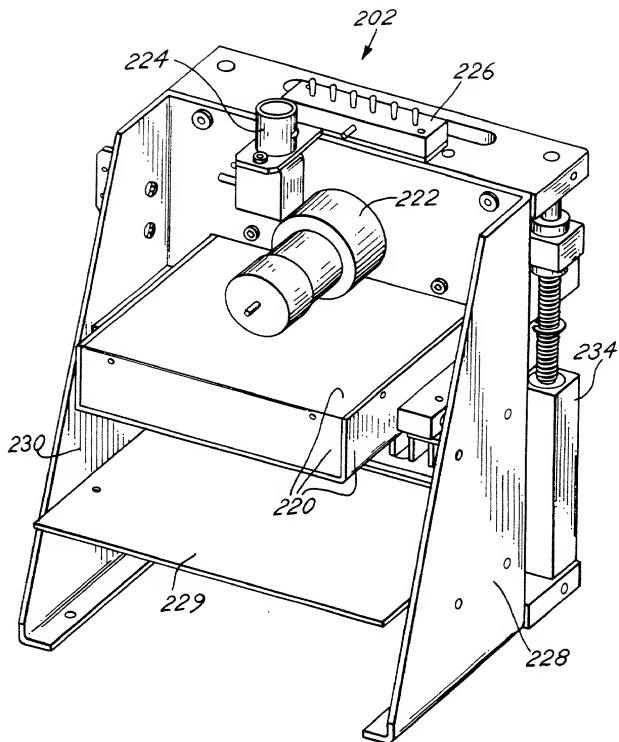


FIG. 7

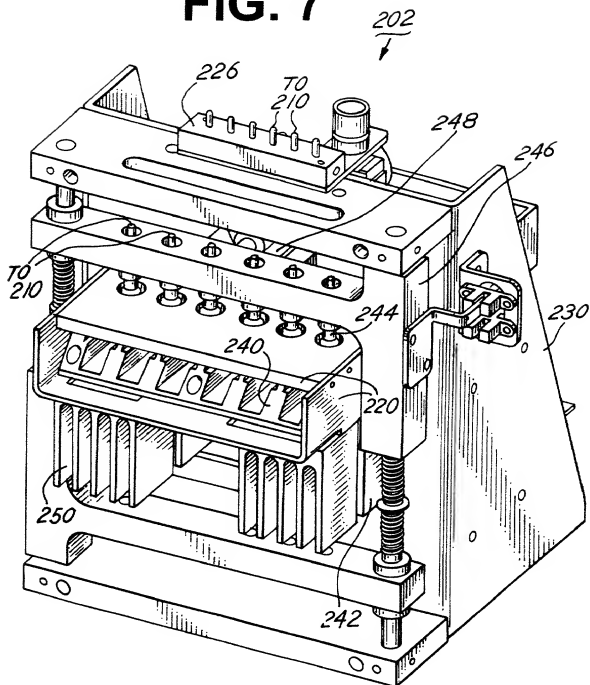


FIG. 8

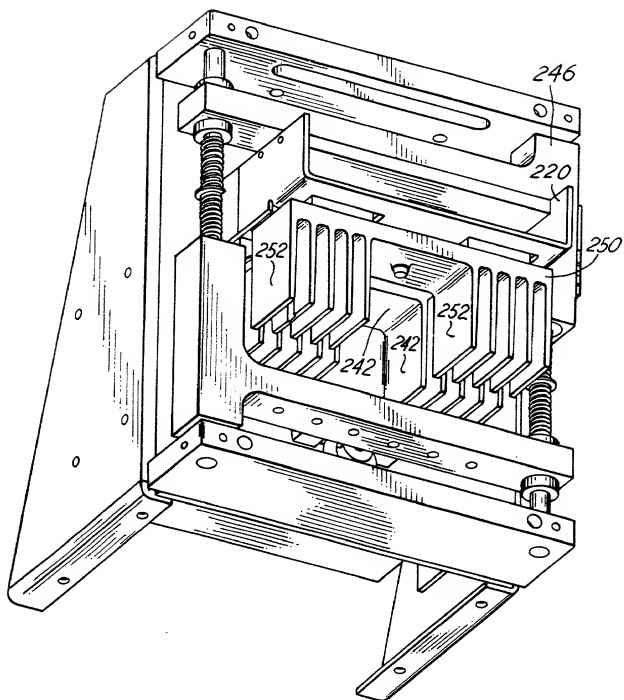


FIG. 9

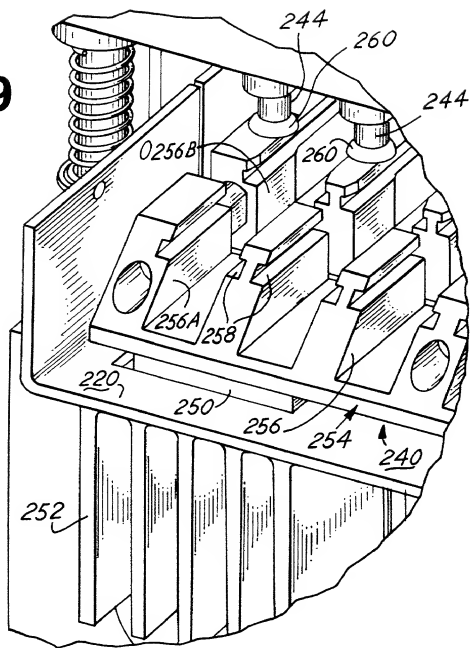
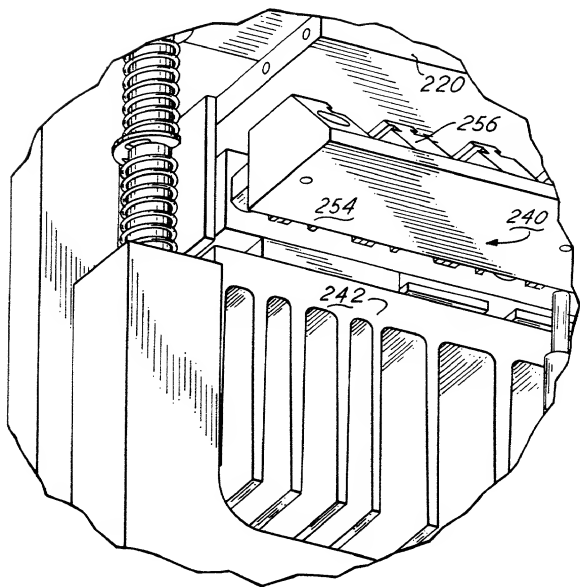


FIG. 11



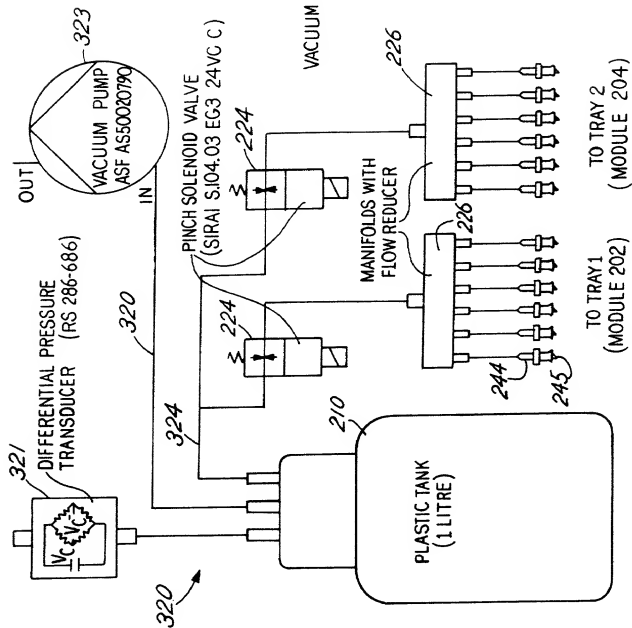
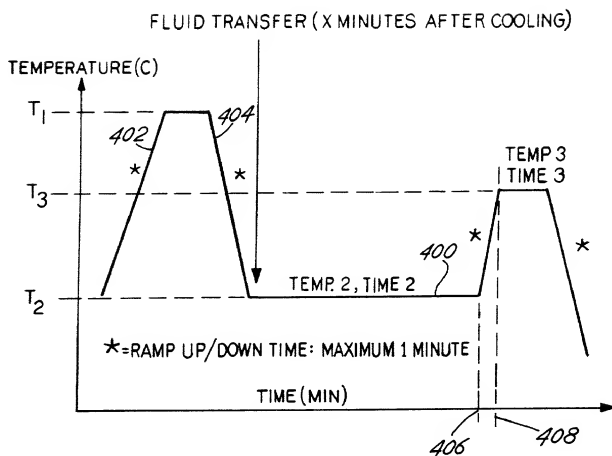


FIG. 13
VACUUM SYSTEM DIAGRAM

FIG. 14



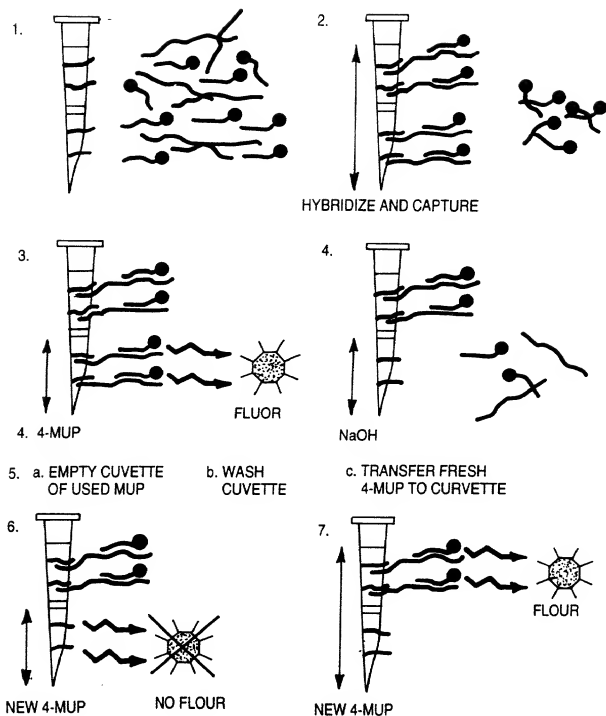


FIG. 15



MULTIPLEX STRIP CONFIGURATION

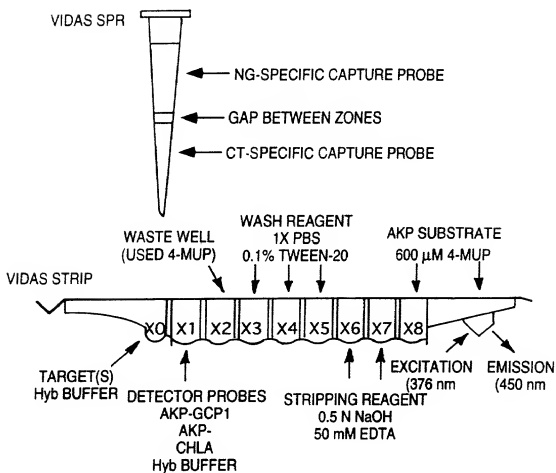


FIG. 17

TEST OF MULTIPLEX VIDAS PROTOCOL

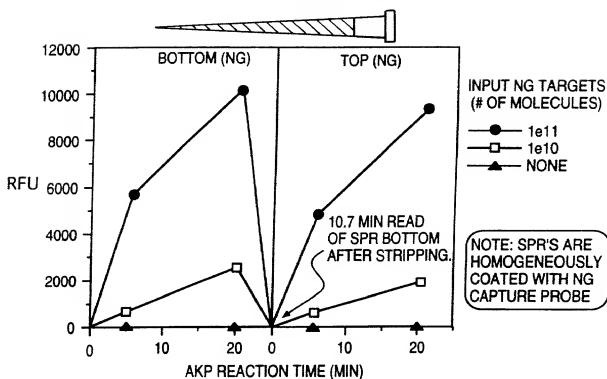


FIG. 18

FIG. 19A

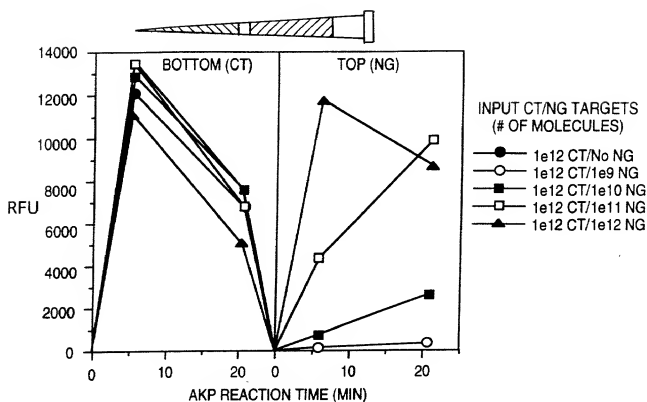


FIG. 19B

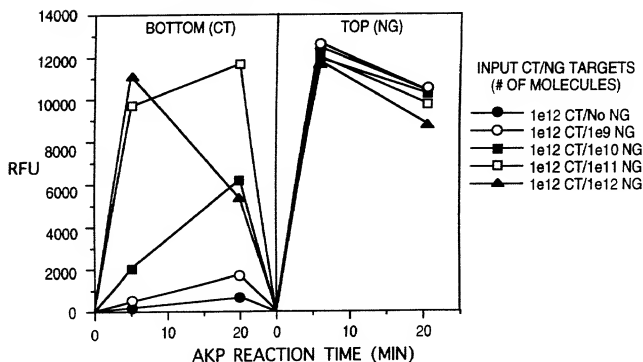


FIG. 20A

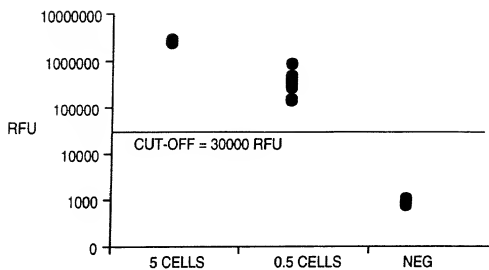


FIG. 20B

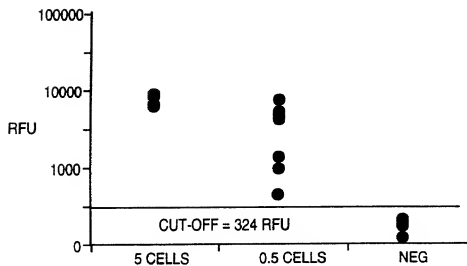
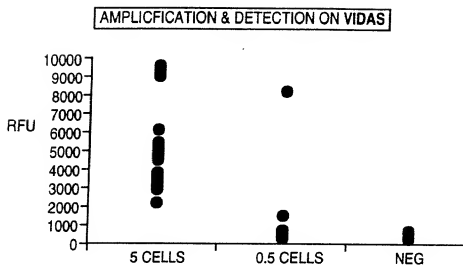


FIG. 21



BINARY: VIDAS DETECTION

BINARY: AMPLIFICATION AND DETECTION
ON 44oC VIDAS

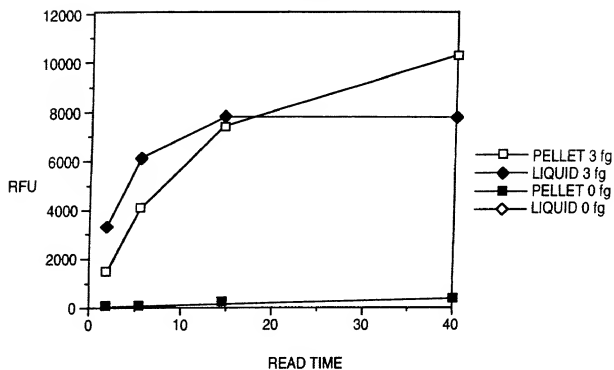


FIG. 22

Random Internal Control 1

5'-ggagcgaattgttagggcacactcatatgggtgagcagatctttctgtgtaagggctgatgtcagcgtatttgacaaagcatgacgaccaga-3'
 3'-ccctcgcctttacattcccggtgtgagtaccaccctcgtttcagaaagacattccccactacagtcgcgcataaacgtgttcgtactgtgtggtct-5'

RAN16 primer: 5'-agcgaattgttagggcacactc-3' 5'-taaagggctgatgtcagggcgtta-3' RAN21 AMVB-probe

TARGET: 5'-ggagcgaattgttagggcacactcatatgggtgagcaagctctttctgtgtaagggctgatgtcagcgtatttgacaaagcatgacgaccaga-3'
 RAN33 AMP-probe: 5'-atgggtgagcaagctctttctgtg-3' 3'-aacgtgttcgtactgtgtgtct

agagggatattcactcagcattatttaa-5'
 (T7 promoter / RAN19 primer)

(T3 promoter)

5'-gcatttaaccttcacttaagggcgaattgttagggcacactcatatgggtgagcagatc-3'
 3'-gtaccacactctgttcgaagaagacattccccgactacagttccgcataaacgtgttcgtactgtgtggtct-5'

OLIGOS

RAN16 TNA primer: 5'-agc gaa tgt tag ggc aca ctc-3'
 RAN21 AMVB-probe: 5'-aminolink-taa ggg ctg atg tca ggc gta-3'
 RAN33 AMP-probe: 5'-aminolink-atg ggt gag caa gtc ttt ctg-3'
 T7/RAN19 TNA primer: 5'-ant tta ata cga ctc act ata ggg aga tct ggt cgt cat gct tgt caa-3'
 RIC1 Detection oligo: 5'-caa tac gcc tga cat cag ccc tta cag aaa gac ttg ctc acc cat gaa-3'
 RIC1 top oligo: 5'-gca att aac cct cac taa agg gag cga atg tta ggg cac act cat ggg tga gca agt c-3'
 RIC1 bottom oligo: 5'-tct ggt cgt cat gct tgt caa tac gcc tga cat cag ccc tta cag aaa gac ttg ctc acc cat g-3'

FIG. 24

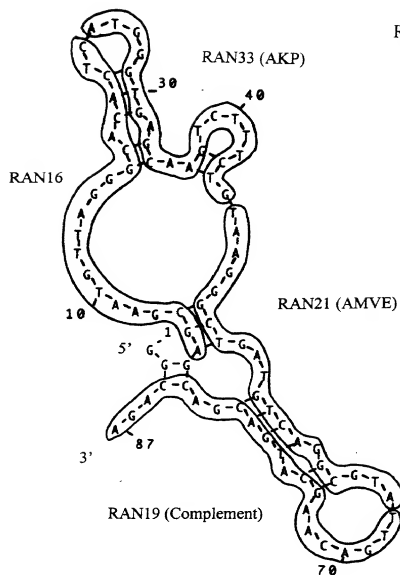


FIG. 25

Random Internal Control 2

5'-CAGTGAAGGTGAGGGCTCTGTAGGATATATACAGAGGCCAGATGTATCAGGAGCCTAGAGGATGTCGT-3'
3'-GTCAATCTCCATCCCGGACGATCCCTGCAATATGCTTTCGGTCAACAGCTTGTGTAGTGTGCGCTGTATGAAACAGATGTCTCTGATGATCTGCTGACACCA-5'

RAMS1 THA primer 5' -CACTAGAGGTAGgggCTgCTAggAGgT-3'

5' -ACgACTCagCACggCgAATAC-3' RAN32 AKP-probe

TARGET -----> 5'-CAGTGAAGAATGTAAGGGCTGTCAAGgagATTACAAgAACCGACTCAGcggcgAATCTTTTCCTACCgaCCCTAgaggatgcgc-3'
RAN27 MYVE-probe 5'-TAACAAgaaGCCAtGTGTACGa-3'

2) 3' CAGTGAAGAATGTAAGGGCTGTCAAGgagATTACAAgAACCGACTCAGcggcgAATCTTTTCCTACCgaCCCTAgaggatgcgc

AGAGGGATATCACTCAGCATAAATTAA-5'
(T7 promoter / RAN39 primer)

(T3 promoter)

5' -GCATTAACTTAAAGGCGTAGGTAGGGCTAGGAGTATTAACAGAAAGCCAGTTGATC-3'

3' - 5'CTTTCgTCAcATgCCTTgCTgAgTCgTgCCgCTTATgAAACgATgqTCTgqATCTCTCTCAcGCA-

01.1608

RAN51 TMA primer: 5'-CAg TAq Aqq TAq qqq CTA qqa GT-3'

RAN27 AMV8-probe: 5'-aminolink-TAA CAG AAG,CCA GTa TAC GGA-3'

RAN32 AKP-PROBE: 5'-aminolink-ACG ACT CAG CAC GGC GAA TAC-3'

T7 / RAN39 primer: 5'-AAT TTA ATA CCA CTC ACT ATA GGA AGA AGC

RIC2 Detection oligo: 5'-AAg TAT TCg CCg TgC TgA gTC gTT CCg TAg CAg

RIC2 Top oligo: 5'-GCA ATT AAC CTT CAC TTA ACC GCG

RIC2 Bottom all no!

5'-ACG CAG TCC ACC AAC GCG GGG GGC

Free and open web site

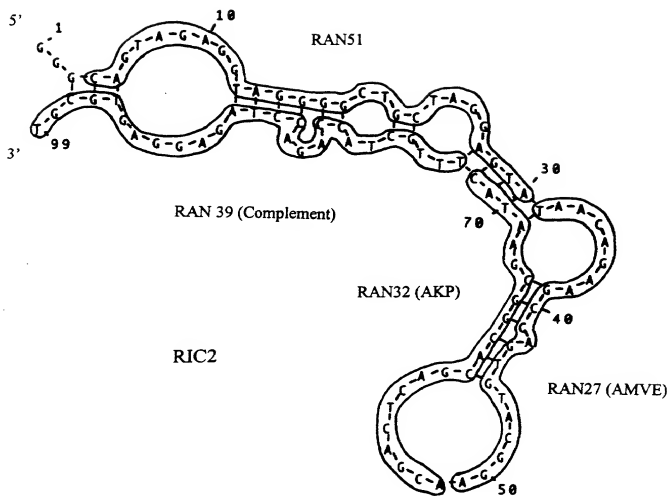


FIG. 27

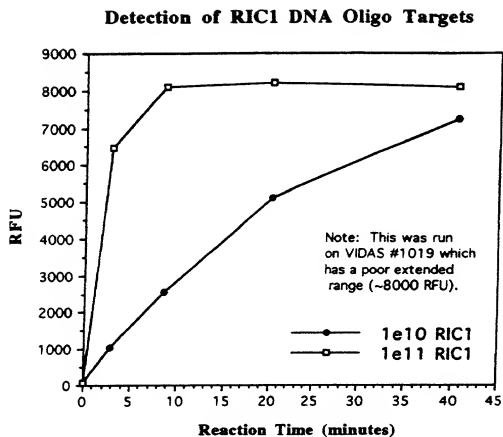


FIG. 28

AMPLIFICATION OF PURIFIED RIC1 RNA									
Position	RIC1 RNA*	CT RNA	AKP Type & SPR Type	0 min	1.8 min	5.4 min	14.6 min	40.0 min	
C1	none	none	RIC1	56	56	58	61	70	
C2	"	none	RIC1	57	55	57	59	66	
C3	0.1	none	RIC1	56	55	57	61	70	
C4	"	none	RIC1	57	56	57	61	68	
C5	1	none	RIC1	56	55	59	65	81	
C6	"	none	RIC1	56	55	57	62	74	
D1	10	none	RIC1	55	78	114	202	414	
D2	"	none	RIC1	56	56	59	66	82	
D3	100	none	RIC1	56	55	58	62	73	
D4	"	none	RIC1	57	57	61	70	94	
D5	1000	none	RIC1	56	58	81	119	227	
D6	"	none	RIC1	56	57	70	102	184	
E1	10000	none	RIC1	56	93	209	414	948	
E2	"	none	RIC1	56	105	246	497	1155	
E3	100000	none	RIC1	56	395	1474	3029	6510	
E4	"	none	RIC1	56	596	1981	4309	7830	
E5	1000000	none	RIC1	56	985	3597	7371	10840	
E6	"	none	RIC1	55	1062	3617	7464	10839	
Amplification performed with CT reagents, spiked with RIC1 primers (25 pmol RAN 16 and 5 pmol T7/RAN 19). Each sample is an independent amplification.									
RIC1 SPRs coated at 0.5 ng/ μ l instead of the "normal" 1.0 ng/ μ l level.									

FIG. 29

Chlamydia trachomatis:

1	
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Neisseria gonorrhoeae:

1

Mycobacterium tuberculosis:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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HIV-1:

0	1
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Random Sequence Probe #1082 (Reporter)

Random Sequence Probe #1081 (Capture)